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**DECLARATION FOR UTILITY OR
DESIGN
PATENT APPLICATION
(37 CFR 1.63)**

☒ Declaration Submitted with Initial Filing OR ☐ Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)

Attorney Docket Number NORTE-523A

First Named Inventor Kent E. Peterson.

COMPLETE IF KNOWN

Application Number /

Filing Date

Art Unit

Examiner Name

As the below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

SLOW-WAVE STRUCTURE FOR RIDGE WAVEGUIDE

(Title of the Invention)

the specification of which

☒ is attached hereto

OR

☐ was filed on (MM/DD/YYYY) as United States Application Number or PCT International

Application Number and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

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DECLARATION — Utility or Design Patent ApplicationDirect all correspondence to: ☒ Customer Number **007663** OR ☐ Correspondence address belowName **BRUCE B. BRUNDA**
STETINA BRUNDA GARRED & BRUCKERAddress **75 Enterprise, Suite 250**City **Aliso Viejo** State **CA** ZIP **92656**Country **USA** Telephone **(949) 855-1246** Fax **(949) 855-6371**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR: ☐ A petition has been filed for this unsigned inventorGiven Name
(first and middle [if any]) **Kent E.**Family Name
or Surname **Peterson**Inventor's
Signature *Kent E. Peterson*Date **11/24/03**Residence: City **Hoffman Estates** State **IL** Country **USA** Citizenship **USA**Mailing Address **624 Claridge Circle**City **Hoffman Estates** State **IL** ZIP **60194** Country **USA**NAME OF SECOND INVENTOR: ☐ A petition has been filed for this unsigned inventorGiven Name
(first and middle [if any]) **Delfin Q.**Family Name
or Surname **Nacilla**Inventor's
Signature *Delfin Q. Nacilla*Date **11/25/03**Residence: City **Hoffman Estates** State **IL** Country **USA** Citizenship **USA**Mailing Address **3751 Winding Trail Lane**City **Hoffman Estates** State **IL** ZIP **60195** Country **USA**☐ Additional inventors are being named on the ____ supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.

Please type a plus sign (+) inside this box → +

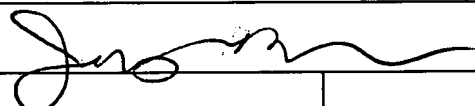
PTO/SB/02A (11-00)
Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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DECLARATION

ADDITIONAL INVENTOR(S)
Supplemental Sheet
Page 1 of 1

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
Jeffrey B.		Barner	
Inventor's Signature 		Date <u>12/14/03</u>	
Residence: City <u>Antioch</u>	State <u>IL</u>	Country <u>USA</u>	Citizenship <u>USA</u>
Mailing Address <u>924 Mockingbird Drive</u>			
Mailing Address			
City <u>Antioch</u>	State <u>IL</u>	ZIP <u>60002</u>	Country <u>USA</u>
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
Inventor's Signature		Date	
Residence: City	State	Country	Citizenship
Mailing Address			
Mailing Address			
City	State	ZIP	Country
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
Inventor's Signature		Date	
Residence: City	State	Country	Citizenship
Mailing Address			
Mailing Address			
City	State	ZIP	Country

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PTO/SB/81 (02-01)

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POWER OF ATTORNEY OR AUTHORIZATION OF AGENT	Application Number	
	Filing Date	
	First Named Inventor	Kent E. Peterson
	Title	SLOW-WAVE...
	Group Art Unit	
	Examiner Name	
	Attorney Docket Number	NORTE-523A

I hereby appoint:

☐ Practitioners at Customer Number →

Place Customer Number Bar Code Label here

☒ Practitioner(s) named below:

Name	Registration Number
Terry Anderson	24,271

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

☐ The above-mentioned Customer Number.

OR

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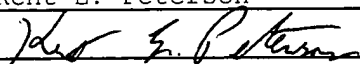
<input checked="" type="checkbox"/> Firm or Individual Name	Bruce B. Brunda/STETINA BRUNDA GARRED & BRUCKER				
Address	75 Enterprise, Suite 250				
Address					
City	Aliso Viejo	State	CA	Zip	92656
Country	USA				
Telephone	(949) 855-1246	Fax	(949) 855-6371		

I am the:

☒ Applicant/Inventor.

☐ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

SIGNATURE of Applicant or Assignee of Record

Name	Kent E. Peterson
Signature	
Date	11/24/03

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☐ *Total of _____ forms are submitted.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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PTO/SB/81 (02-01)

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	First Named Inventor	Kent E. Peterson
	Title	SLOW-WAVE...
	Group Art Unit	
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	Attorney Docket Number	NORTE-523A

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Terry Anderson	24,271

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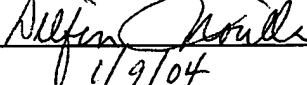
<input checked="" type="checkbox"/> Firm or Individual Name	Bruce B. Brunda/STETINA BRUNDA GARRED & BRUCKER				
Address	75 Enterprise, Suite 250				
Address					
City	Aliso Viejo	State	CA	Zip	92656
Country	USA				
Telephone	(949) 855-1246	Fax	(949) 855-6371		

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Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

SIGNATURE of Applicant or Assignee of Record

Name	Delfin Q. Nacilla
Signature	
Date	1/9/04

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POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	
Filing Date	
First Named Inventor	Kent E. Peterson
Title	SLOW-WAVE...
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Examiner Name	
Attorney Docket Number	NORTE-523A

I hereby appoint:

☐ Practitioners at Customer Number OR

☒ Practitioner(s) named below:

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Name	Registration Number
Terry Anderson	24,271

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☒ Practitioners at Customer Number

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Number Bar Code
Label here

☒ Firm or
Individual Name

Bruce B. Brunda/STETINA BRUNDA GARRED & BRUCKER

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Country USA

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I am the:

☒ Applicant/Inventor.

☐ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

SIGNATURE of Applicant or Assignee of Record

Name Jeffrey B. Barner

Signature

Date

12/14/03

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Northrop Grumman Corporation)
Serial No.: Unknown) Group Art Unit: Unknown
Filed: Herewith) Examiner: Unknown
For: SLOW-WAVE STRUCTURE FOR RIDGE)
WAVEGUIDE)

ASSOCIATE POWER OF ATTORNEY

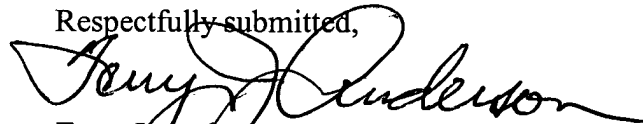
Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

I hereby appoint Kit M. Stetina, Reg. No. 29,445; Bruce B. Brunda, Reg. No. 28,497; Mark B. Garred, Reg. No. 34,823; William J. Brucker, Reg. No. 35,462; Matthew A. Newboles, Reg. No. 36,224; Thomas C. Naber, Reg. No. 26,777; Eric L. Tanezaki, Reg. No. 40,196; Lowell Anderson, Reg. No. 30,990; In H. Kim, Reg. No. 44,184; Marlene Klein, Reg. No. 43,718; Stephen T. Bang, Reg. No. P-48,926; and J. Ronald Richebourg, Reg. No. 26,642 of the Law Offices of Stetina Brunda Garred & Brucker located at 75 Enterprise, Suite 250, Aliso Viejo, California 92656, Telephone No. (949) 855-1246, as associate attorneys and agents, with full power, to prosecute this application, and to transact all business in the Patent and Trademark Office connected with this application.

All future communications should continue to be addressed to the undersigned.

Respectfully submitted,



Terry J. Anderson
Registration No. 24,271
Karl J. Hoch, Jr.
Registration No. 34,181

Date: January 14, 2004

NORTHROP GRUMMAN CORPORATION
Intellectual Property Department
M/S 30/110/31
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